BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Development and Improvements to Roads and Drains in Main and Cross Roads of Ward No. 05 jakkru,

			Estimate Cost Rs.					5000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1,P. No. 5/ Item No. 2.1/ PWD SR 2015-16	cum							
	Deslilting Of Drains								
	Vinayakanagara 1st main Road Lift Side		1	152.00	0.60	0.35	31.92		
			1	128.00	0.40	0.30	15.36		
			1	85.30	0.40	0.30	10.24		
	Right Side		1	73.40	0.60	0.30	13.21		
			1	27.00	0.40	0.30	3.24		
			1	26.00	0.40	0.35	3.64		
			1	27.50	0.40	0.35	3.85		
			1	28.50	0.40	0.35	3.99		
			1	114.00	0.40	0.30	13.68		
	Anandanagara 3rd main		1	96.50	0.40	0.20	7.72		
							106.61	159.84	**17041.00**
	Basic Rate	148.00							
	Area Weightage @ 8%	11.84							
	Total	**159.84**							
2	Removing B.S Slab of Drain and stacking Page No. 28/ Item No. 5.32/ PWD SR 2015-16	Sqm							
	Vinayakanagara 1st main Road Lift Side		1	128.00	1.65		211.20		
			1	85.30	1.65		140.75		
	Right Side		1	27.00	1.65		44.55		
			1	26.00	1.65		42.90		
			1	27.50	1.65		45.38		
			1	28.50	1.65		47.03		
			1	114.00	1.65		188.10		
	Cross Roads		1	75.00	1.65		123.75		
	Anandanagara 3rd main		1	96.50	1.65		159.23		
							1002.05		
	Deduct 20% Missing Slabs						200.41		
							801.64	63.72	**51081.00**
	Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
	Total	**63.72**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 28/ Item No. 5.33/ PWD SR 2015-16	Sqm							
			Qty Vide Item No.3				801.64		
							801.64	**78.84**	**63201.00**
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**78.84**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2015-16	**Sqm**							
	For Missing slabs (20%)		Missing Slabs				200.41		
							200.41	663.12	**132896.00**
	Basic Rate	614.00							
	Area Weightage @ 8%	49.12							
	Total	**663.12**							
5	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2015-16	Cum							
	For Solid Block Drain Raising Course								
			2	13.50	0.25	0.30	2.03		
	Vinayakanagara 1st main Road Lift Side		2	152.00	0.25	0.30	22.80		
			2	128.00	0.25	0.30	19.20		
			2	85.30	0.25	0.30	12.80		
	Right Side		2	73.40	0.25	0.30	11.01		
			2	27.00	0.25	0.30	4.05		
			2	26.00	0.25	0.30	3.90		
			2	27.50	0.25	0.30	4.13		
			2	28.50	0.25	0.30	4.28		
			2	114.00	0.25	0.30	17.10		
	Anandanagara 3rd Main Road		2	96.50	0.25	0.30	14.48		
	For Solid Block drain Anandanagara 2nd main		2	87.30	1.10	0.80	153.65		
			1	20.00	1.10	0.70	15.40		
	Culverts		2	7.50	1.95	1.05	30.71		
							314.02	288.36	**90551.00**
	Basic Rate	267.00							
	Area Weightage @ 8%	21.36							
	Total	**288.36**							
6	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2015-16	**Cum**							
	For Solid Block Drain Raising Course								
			1	13.50	0.25	0.20	0.68		
	Vinayakanagara 1st main Road Lift Side		1	152.00	0.60	0.20	18.24		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			2	128.00	0.25	0.10	6.40		
			2	85.30	0.25	0.10	4.27		
	Right Side		1	73.40	0.60	0.20	8.81		
			2	27.00	0.25	0.10	1.35		
			2	26.00	0.25	0.10	1.30		
			2	27.50	0.25	0.10	1.38		
			2	28.50	0.25	0.10	1.43		
			2	114.00	0.25	0.10	5.70		
	Vinayakanagara Slab Drain Vent 1st Main Left Side		1	128.00	0.35	0.10	4.48		
			1	85.30	0.30	0.10	2.56		
	Anandanagara 3rd main		2	96.50	0.25	0.15	7.24		
	For Solid Block drain Anandanagara 2nd main		2	87.30	1.10	0.20	38.41		
			2	20.00	1.10	0.20	8.80		
	Culverts		2	7.50	1.95	0.15	4.39		
							114.60	5070.60	**581091.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
7	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2015-16	cum							
	For Culverts		2X2	7.50	0.60	0.45	8.10		
							8.10	4135.32	**33496.00**
	Basic Rate	3829.00							
	Area Weightage @ 8%	306.32							
	Total	**4135.32**							
8	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2015-16	**Sqm**							
	For Culverts		2X2	7.50	0.50	0.45	6.75		
							6.75	**4905.36**	**33111.00**
	Basic Rate	4542.00							
	Area Weightage @ 8%	363.36							
	Total	**4905.36**							
9	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2015-16	**Sqm**							
	For Culverts		2	7.50	0.60		9.00		
	For Sides		2X2	7.50	0.23		6.90		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			2X2	1.65	0.23		1.52		
							17.42	**270.00**	**4703.00**
	Basic Rate	**250.00**							
	Area Weightage @ 8%	20.00							
	Total	**270.00**							
10	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2015-16	**cum**							
	For Culverts		2X2	7.50	0.50	0.10	1.50		
	Vent Bed		2	7.50	0.60	0.10	0.90		
							2.40	5491.80	**13180.00**
	Basic Rate	5085.00							
	Area Weightage @ 8%	406.80							
	Total	**5491.80**							
11	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2015-16	Sqm							
	For Culverts		2X2	7.50		0.50	15.00		
							15.00	99.36	**1490.00**
	Basic Rate	92.00							
	Area Weightage @ 8%	7.36							
	Total	**99.36**							
12	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2015-16	**Cum**							
	For Culverts		2	7.50	1.65	0.23	5.69		
							5.69	6198.12	**35283.00**
	Basic Rate	5739.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	459.12							
	Total	**6198.12**							
13	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR 2015-16	**Qtl**							
	0.10 Ton/Cum		0.100	5.69			**0.57**	69805.80	**39737.00**
	Basic Rate	64635.00							
	Area Weightage @ 8%	5170.80							
	Total	**69805.80**							
14	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 24/ Item No. 5.27/ PWD SR 2015-16	Sqm							
	For Solid Block Drain Raising Course								
			2	13.50		0.60	16.20		
	Vinayakanagara 1st main Road Lift Side		2	128.00		0.40	102.40		
			2	85.30		0.40	68.24		
	Right Side		2	27.00		0.40	21.60		
			2	26.00		0.40	20.80		
			2	27.50		0.60	33.00		
			2	28.50		0.60	34.20		
			2	114.00		0.40	91.20		
	Anandanagara 3rd main		2	96.50		0.40	77.20		
	For Solid Block drain 2nd main		4	87.30		0.60	209.52		
			2	20.00		0.60	24.00		
							697.04	1018.44	**709893.00**
	Basic Rate	943.00							
	Area Weightage @ 8%	75.44							
	Total	**1018.44**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	KSRB 15-3.7:- Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 109/ Item No. 15.15/ PWD SR 2015-16**	Sqm							
	For Solid Block drain 2nd main		4	78.00	0.60		187.20		
			2	20.00	0.60		24.00		
							211.20	237.60	**50181.00**
	Basic Rate	220.00							
	Area Weightage @ 8%	17.60							
	Total	**237.60**							
16	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1**:2:4** withOPC cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.6/ PWD SR 2015-16	**cum**							
	Coping Concrete								
			2	13.50	0.45	0.10	1.22		
	Vinayakanagara 1st main Road Lift Side		2	152.00	0.45	0.10	13.68		
			2	128.00	0.20	0.10	5.12		
			2	85.30	0.20	0.10	3.41		
	Right Side		2	73.40	0.45	0.10	6.61		
			2	27.00	0.20	0.10	1.08		
			2	26.00	0.20	0.10	1.04		
			2	27.50	0.20	0.10	1.10		
			2	28.50	0.20	0.10	1.14		
			2	114.00	0.20	0.10	4.56		
	Anandanagara		2	96.50	0.20	0.10	3.86		
	For Solid Block drain		4	87.30	0.20	0.10	6.98		
			2	20.00	0.20	0.10	0.80		
	Vent Concrete		1	152.00	0.60	0.10	9.12		
			1	73.40	0.60	0.10	4.40		
	For Solid Block drain		2	78.00	0.50	0.10	7.80		
			1	20.00	0.50	0.20	2.00		
							73.94	5490.72	**405984.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
17	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	13.50	0.90		12.15		
	Vinayakanagara 1st main Road Lift Side		1	152.00	0.90		136.80		
			1	128.00	1.20		153.60		
			1	85.30	0.90		76.77		
	Right Side		1	73.40	0.90		66.06		
			1	27.00	0.90		24.30		
			1	26.00	0.90		23.40		
			1	27.50	0.90		24.75		
			1	28.50	0.90		25.65		
			1	114.00	0.90		102.60		
	Anandanagar 3rd Main Road		1	96.50	0.90		86.85		
	For Solid Block drain Ananda nagara 2nd main		2	87.30	0.90		157.14		
			1	20.00	0.90		18.00		
							907.83	1856.67	**1685541.00**
	Data Rate	**1856.67**							
18	KSRRB M300-53 : Construction of embankment with approved material Gravel/Murrum with all lifts and leads, trasnporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications (which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305. **(Page No. 144 & Item No. 19.60) PWD SR 2015--16**	**Cum**							
	Anandanagara		2	85.50	6.00	0.30	**307.80**	220.32	**67814.00**
	Basic Rate	204.00							
	Area Weightage @ 8%	16.32							
	Total	**220.32**							
19	Providing and fixing pre cast solid cement concrete kerb stones made out of No. 272.21 C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 25/ Item No. 5.30/ PWD SR 2015-16	**Nos**							
	Vinayakanagara 1st main Road		2	365.00			730.00		
			ie, 730/0.45= 1622.00				**730.00**		
			1622.00				**1622.00**	320.76	**520273.00**
	Basic Rate	297.00							
	Area Weightage @ 8%	23.76							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	320.76							
11	KSRB 15.19.1 : Providing and applying **ready mix priming coat** over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughtly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Page No. 121/ Item No. 15.80/ PWD SR 2015-16	Sqm							
	Vinayakanagara 1st main Road		2	300.00		0.30	180.00		
	~~7th Cross~~		~~2~~	~~60.00~~		~~0.30~~	~~36.00~~		
	~~7th Cross 1st Main Road~~		~~2~~	~~150.00~~		~~0.30~~	~~90.00~~		
			~~2~~	~~60.00~~		0.30	36.00		5913.00
							342.00	27.00	9234.00
	Basic Rate	25.00							
	Area Weightage @ 8%	2.00							
	Total	**27.00**							
12	KSRB 15.20.1 : Providing and applying floor painting with ready mix **two coats** (Excluding priming coat) on new s concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Page No. 121/ Item No. 15.83 / PWD SR 2015-16								
			Qty Vide Item No.11				342.00	51.84	17729.00
	Basic Rate	48.00							
	Area Weightage @ 8%	3.84							
	Total	**51.84**							
13	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1				250.80	67.32	16884.00
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2010-11 (P.118/I.17.1) For loading	62.20							
	Total	**67.32**							
							Grand Total		4584604.00
14	For 8% KRIDL Charges								366768.00
15	For 1% Third Party Inspection Charges								45846.00
16	Miscesallaneous Charges	L/S							2782.00
									5000000.00

Rupees Fifty Lakh(s) Only

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 05(Jakkur)

Executive Engineer 1/3/16
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

Technical Sanction
Accorded For 5000000/-
Head of A/C P-3110
CER NO : 02 Dt: 05.04.2016

TA CE (YNK)

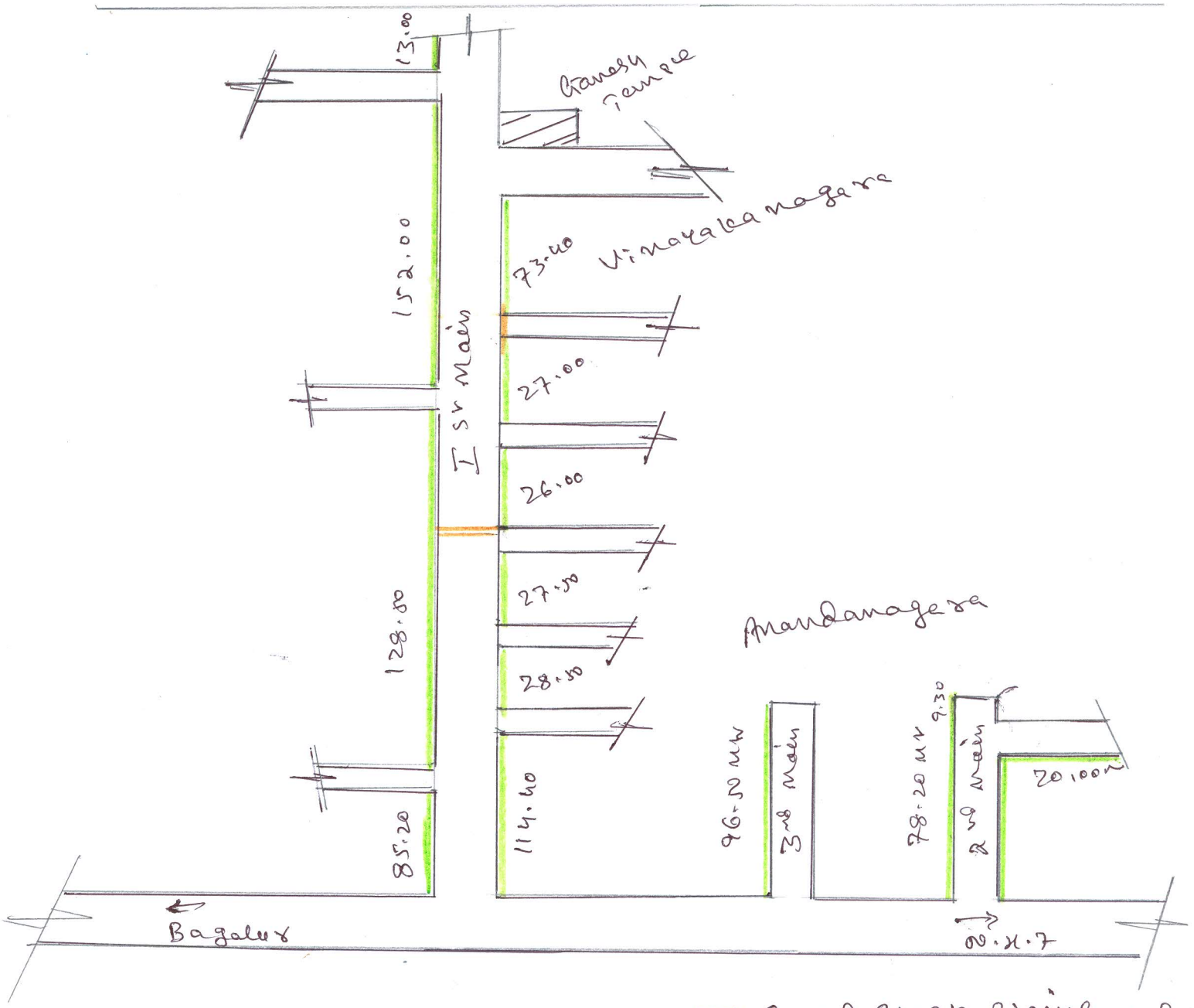
Technical Sanction
Accorded For .....
Head of A/C .....
CER NO ..... Dt: .....

TA CE (YNK)

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lakhs
Rupees Fifty lakhs only
Under P-3110, 14th Finance
Dt 3C(4) pool AS / 85 / 2015-16 dated 15-3-2016 50.00 lakhs
Joint Commissioner (Yelahanka Zone) BBMP, Bengaluru-92

Development And Improvements to Road and Drains in Main Road and Cross Roads & Ward no. 05 Jakkur

Est cost. 50.00 Lacs



Sound Block Rising and covering Slabs.

Concrete.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24